INTERNATIONAL JOURNAL OF PHARMACEUTICS

VOL. 126 NOS. 1,2 CONTENTS 29 DECEMBER 1995

Cited in: Current Contents (Life Sciences: Clinical Practice); International Pharmaceutical Abstracts; Biological Abstracts; Chemical Abstracts; Excerpta Medica EMBASE: PASCAL M; Science Citation Index; Current Awareness in Biological Sciences; CAB Abstracts

Research papers

Influence of processing variables on the properties of free films prepared from aqueous polymeric dispersions by a spray technique
S. Obara, J.W. McGinity (Japan, USA) 1

Modification of phenytoin crystals. III. Influence of 3-butanoyloxymethyl-5,5-diphenylhydantoin on solution-phase crystallization and related crystal properties
A.H.L. Chow, J.D. Gordon, A. Szeitz, J.W.M. Young (Hong Kong, Canada) 11

Assessment of wettability and its relationship to the intrinsic dissolution rate of doped phenytoin crystals
A.H.L. Chow, C.K. Hsia, J.D. Gordon, J.W.M. Young, E.I. Vargha-Butler (Hong Kong, Canada) 21

A computer-controlled temperature recording system and a new computation system for flexible heating stability experiments
X. Zhan, J. Jiang, B. Ma, G. Yin (People's Republic of China) 29

Preparation of *N*-adamantyl *n*-alkanamides and evaluation of their transdermal penetration in the rabbit
S.K. Han, Y.H. Park, C.K. Kim (Korea) 35

Enhanced tumor targeting and improved antitumor activity of doxorubicin by long-circulating liposomes containing amphipathic poly(ethylene glycol)
S. Unezaki, K. Maruyama, O. Ishida, A. Suginaka, J.-i. Hosoda, M. Iwatsuru (Japan) 41

pH-Dependence of phase transition of the lipid bilayer of liposomes of stratum corneum lipids
S. Kitagawa, N. Yokochi, N. Murooka (Japan) 49

Influence of lubricant properties on compression behaviour and drug dissolution rate of scleroglucan hydrophilic matrix
S. Rizk, J.C. Guyot, C. Duru, D. Gaudy (France) 57

Characterization of carbamazepine in systems containing a dissolution rate enhancer
E. Ochoa Machiste, P. Giunchedi, M. Setti, U. Conte (Italy) 65

The effect of polyvinylpyrrolidone on cyclodextrin complexation of hydrocortisone and its diffusion through hairless mouse skin
A.M. Sigurðardóttir, T. Loftsson (Iceland) 73

Controlled release of timolol maleate from coated opthalmic mini-tablets prepared by compression
M.F. Saettone, P. Chetoni, L. Mariotti Bianchi, B. Giannaccini, U. Conte, M.E. Sangalli (Italy) 79

Effect of different polymer-plasticizer combinations on 'in vitro' release of theophylline from coated pellets
M.F. Saettone, G. Perini, P. Rijli, L. Rodriguez, M. Cini (Italy) 83

A modelling analysis of drug absorption and administration from the ocular, naso-lacrimal duct, and nasal routes in rabbits
Y. Maitani, T. Yamamoto, K. Takayama, N.A. Peppas, T. Nagai (Japan, USA) 89

Solubility and solubilization properties of non-steroidal anti-inflammatory drugs
A. Fini, G. Fazio, G. Feroci (Italy) 95

Optimization and in vitro stability of legumin nanoparticles obtained by a coacervation method
J.M. Irache, L. Bergougnoux, I. Ezpeleta, J. Gueguen, A.-M. Orecchioni (France) 103

Cardamom oil as a skin permeation enhancer for indomethacin, piroxicam and diclofenac
Y.-B. Huang, P.-C. Wu, H.M. Ko, Y.H. Tsai (Republic of China) 111

In vitro permeation study of capsaicin and its synthetic derivatives from ointment bases using various skin types
J.-Y. Fang, P.-C. Wu, Y.-B. Huang, Y.-H. Tsai (Republic of China) 119

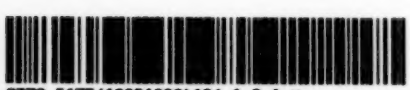
Somatostatin containing biodegradable microspheres prepared by a modified solvent evaporation method based on W/O/W-multiple emulsions
J. Herrmann, R. Bodmeier (USA, Germany) 129

In vitro study for the assessment of poly(L-aspartic acid) as a drug carrier for colon-specific drug delivery
C.S. Leopold, D.R. Friend (USA) 139

A study of the hydrophilic cellulose matrix: effect of indomethacin and a water-soluble additive on swelling properties
S.P. Panomsuk, T. Hatanaka, T. Aiba, K. Katayama, T. Koizumi (Japan) 147

Enhancement of dissolution of glyburide by solid dispersion and lyophilization techniques
G.V. Betageri, K.R. Makarla (USA) 155

(Contents continued on p. 302)



0378-5173(19951229)126:1-2;1-U

INTERNATIONAL JOURNAL OF PHARMACEUTICS

VOL. 126 NOS. 1,2 CONTENTS 29 DECEMBER 1995

Cited in: Current Contents (Life Sciences: Clinical Practice); International Pharmaceutical Abstracts; Biological Abstracts; Chemical Abstracts; Excerpta Medica EMBASE: PASCAL M; Science Citation Index; Current Awareness in Biological Sciences; CAB Abstracts

Research papers

Influence of processing variables on the properties of free films prepared from aqueous polymeric dispersions by a spray technique
S. Obara, J.W. McGinity (Japan, USA) 1

Modification of phenytoin crystals. III. Influence of 3-butanoyloxymethyl-5,5-diphenylhydantoin on solution-phase crystallization and related crystal properties
A.H.L. Chow, J.D. Gordon, A. Szeitz, J.W.M. Young (Hong Kong, Canada) 11

Assessment of wettability and its relationship to the intrinsic dissolution rate of doped phenytoin crystals
A.H.L. Chow, C.K. Hsia, J.D. Gordon, J.W.M. Young, E.I. Vargha-Butler (Hong Kong, Canada) 21

A computer-controlled temperature recording system and a new computation system for flexible heating stability experiments
X. Zhan, J. Jiang, B. Ma, G. Yin (People's Republic of China) 29

Preparation of *N*-adamantyl *n*-alkanamides and evaluation of their transdermal penetration in the rabbit
S.K. Han, Y.H. Park, C.K. Kim (Korea) 35

Enhanced tumor targeting and improved antitumor activity of doxorubicin by long-circulating liposomes containing amphipathic poly(ethylene glycol)
S. Unezaki, K. Maruyama, O. Ishida, A. Suginaka, J.-i. Hosoda, M. Iwatsuru (Japan) 41

pH-Dependence of phase transition of the lipid bilayer of liposomes of stratum corneum lipids
S. Kitagawa, N. Yokochi, N. Murooka (Japan) 49

Influence of lubricant properties on compression behaviour and drug dissolution rate of scleroglucan hydrophilic matrix
S. Rizk, J.C. Guyot, C. Duru, D. Gaudy (France) 57

Characterization of carbamazepine in systems containing a dissolution rate enhancer
E. Ochoa Machiste, P. Giunchedi, M. Setti, U. Conte (Italy) 65

The effect of polyvinylpyrrolidone on cyclodextrin complexation of hydrocortisone and its diffusion through hairless mouse skin
A.M. Sigurðardóttir, T. Loftsson (Iceland) 73

Controlled release of timolol maleate from coated opthalmic mini-tablets prepared by compression
M.F. Saettone, P. Chetoni, L. Mariotti Bianchi, B. Giannaccini, U. Conte, M.E. Sangalli (Italy) 79

Effect of different polymer-plasticizer combinations on 'in vitro' release of theophylline from coated pellets
M.F. Saettone, G. Perini, P. Rijli, L. Rodriguez, M. Cini (Italy) 83

A modelling analysis of drug absorption and administration from the ocular, naso-lacrimal duct, and nasal routes in rabbits
Y. Maitani, T. Yamamoto, K. Takayama, N.A. Peppas, T. Nagai (Japan, USA) 89

Solubility and solubilization properties of non-steroidal anti-inflammatory drugs
A. Fini, G. Fazio, G. Feroci (Italy) 95

Optimization and in vitro stability of legumin nanoparticles obtained by a coacervation method
J.M. Irache, L. Bergougnoux, I. Ezpeleta, J. Gueguen, A.-M. Orecchioni (France) 103

Cardamom oil as a skin permeation enhancer for indomethacin, piroxicam and diclofenac
Y.-B. Huang, P.-C. Wu, H.M. Ko, Y.H. Tsai (Republic of China) 111

In vitro permeation study of capsaicin and its synthetic derivatives from ointment bases using various skin types
J.-Y. Fang, P.-C. Wu, Y.-B. Huang, Y.-H. Tsai (Republic of China) 119

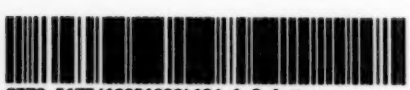
Somatostatin containing biodegradable microspheres prepared by a modified solvent evaporation method based on W/O/W-multiple emulsions
J. Herrmann, R. Bodmeier (USA, Germany) 129

In vitro study for the assessment of poly(L-aspartic acid) as a drug carrier for colon-specific drug delivery
C.S. Leopold, D.R. Friend (USA) 139

A study of the hydrophilic cellulose matrix: effect of indomethacin and a water-soluble additive on swelling properties
S.P. Panomsuk, T. Hatanaka, T. Aiba, K. Katayama, T. Koizumi (Japan) 147

Enhancement of dissolution of glyburide by solid dispersion and lyophilization techniques
G.V. Betageri, K.R. Makarla (USA) 155

(Contents continued on p. 302)



0378-5173(19951229)126:1-2;1-U

(Contents continued)

Indomethacin sustained release from alginate–gelatin or pectin–gelatin coacervates
I. Joseph, S. Venkataram (Canada) 161
Effects of polymer degradation on drug release—a mechanistic study of morphology and transport properties in 50:50 poly(*dl*-lactide-co-glycolide)
L.K. Chiu, W.J. Chiu, Y.-L. Cheng (Canada) 169
The limiting role of mucus in drug adsorption: drug permeation through mucus solution
P.G. Bhat, D.R. Flanagan, M.D. Donovan (USA) 179
The effect of particle size and viscosity grade on the compaction properties of hydroxypropylmethylcellulose 2208
A. Nokhodchi, M.H. Rubinstein, J.L. Ford (UK) 189
Dissolution kinetics and solubilities of *p*-aminosalicylic acid and its salt
R.T. Forbes, P. York, J.R. Davidson (UK) 199
Differential scanning calorimetric analysis of dipalmitoylphosphatidylcholine-liposomes upon hydrolysis
N.J. Zuidam, D.J.A. Crommelin (The Netherlands) 209
Epidermal permeability-penetrant structure relationships: 1. An analysis of methods of predicting penetration of monofunctional solutes from aqueous solutions
M.S. Roberts, W.J. Pugh, J. Hadgraft, A.C. Watkinson (Australia, UK) 219
Percutaneous absorption of a new antiandrogen included in liposomes or in solution
E. Bernard, J.L. Dubois, J. Wepierre (France) 235
The colonic absorption of human calcitonin: the effects of increasing local concentration and co-administration with a protease inhibitor
J. Hastewell, K.H. Antonin, R. Fox, M. Mackay (UK, Germany, Switzerland) 245
Primaquine-loaded poly(lactide) nanoparticles: physicochemical study and acute tolerance in mice
J.M. Rodrigues, Jr., H. Fessi, C. Bories, F. Puisieux, J.-Ph Devissaguet (France) 253
Factors influencing the activity of taurolidine against spores of *Bacillus subtilis* (NCTC 10073)
D.S. Jones, S.P. Gorman (UK) 261
Effect of penetration enhancers on flurbiprofen permeation through rat skin
S.-C. Chi, E.-S. Park, H. Kim (South Korea) 267

Notes
Evaluation of gastrointestinal behaviour in the rat of amphiphilic β-cyclodextrin nanocapsules, loaded with indomethacin
M. Skiba, C. Morvan, D. Duchene, F. Puisieux, D. Woussidjewe (France) 275
An explanation of the quaternary ammonium compound-Eosin Y equilibria in the presence and absence of Triton X-100
D.S. Jones, L.J. Schep, I.G. Tucker, M.G. Shepherd (New Zealand) 281
Elaboration and thermal study of interactions between cinnarizine and gelucire® 53/10 physical mixtures and solid dispersions
J.M. Ginés, M.D. Veiga, M.J. Arias, A.M. Rabasco (Spain) 287

Author index 293
Instructions to authors 297
Noticeboard 301